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Patent Abstracts of Japan

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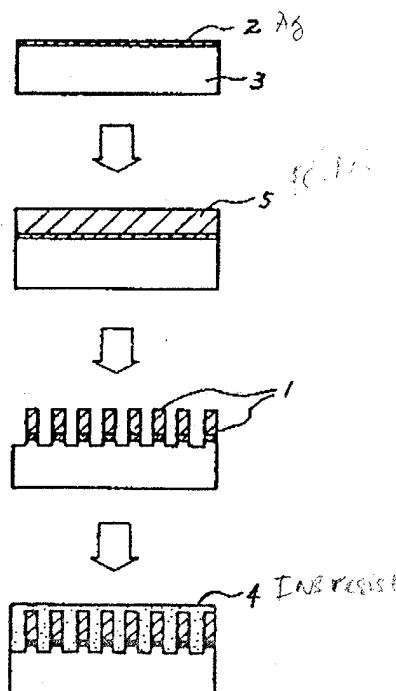
APPLICATION DATE : 16-03-88
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APPLICANT : HITACHI KOKI CO LTD;

INVENTOR : KOJIMA RYOJI;

INT.CL. : B41J 3/18 B41J 3/16

TITLE : RECORDING ELECTRODE AND
MANUFACTURE THEREOF

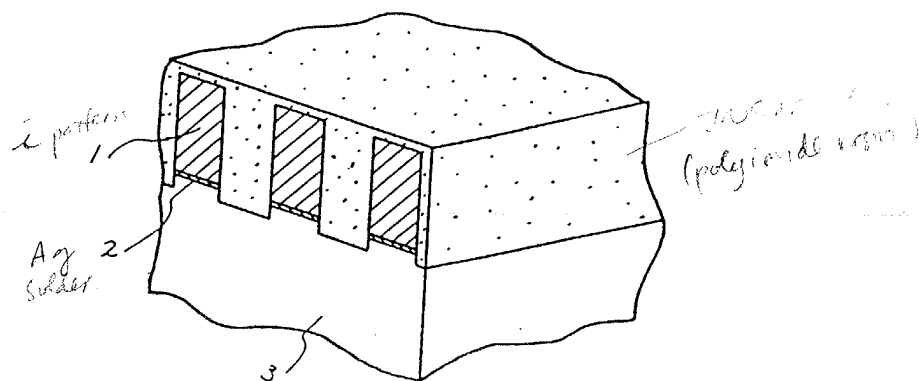


ABSTRACT : PURPOSE: To achieve high density, high resolution, high reliability, and improvement of productivity, by a method wherein a linear column state pattern is formed by using a conductive magnetic material of a specific thickness or above, and an insulating resist is applied to the electrode pattern and between the electrode patterns.

CONSTITUTION: A junction layer 2 of a silver solder layer of $5\mu\text{m}$ in thickness is formed by a screen process printing on a side surface of an insulating alumina substrate 3. Then, a Fe-Ni alloy sheet of $40\mu\text{m}$ or above in thickness as a conductive magnetic sheet 5 is lined on the junction layer 2, and the alumina substrate and the Fe-Ni alloy sheet are joined by heating. Thereafter, linear cutting is performed by a cut depth of $125\mu\text{m}$ to form an electrode pattern 1. Since an area where an edge part of the electrode pattern is brought into contact with toner is increased, a formed image becomes extremely clear. Successively a space between the electrode patterns 1 is filled and the electrode pattern 1 is coated with polyimide resin as an insulating resist 4. No short circuit between the electrodes via the toner occurs, and a clear image is formed.

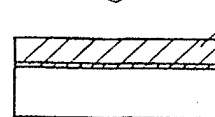
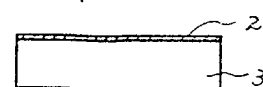
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第 1 図



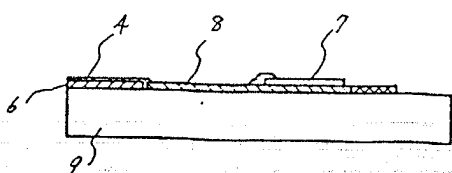
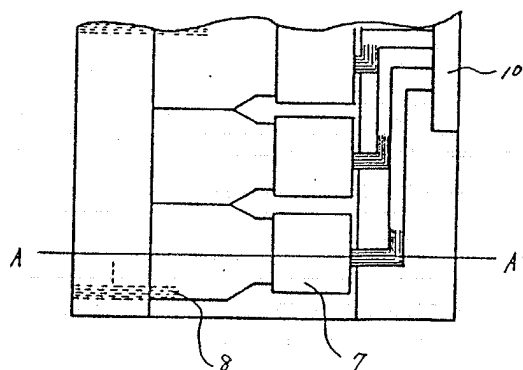
- 1 電極パターン
2 接合層
3 絶縁基板
4 絶縁レジスト

第 2 図



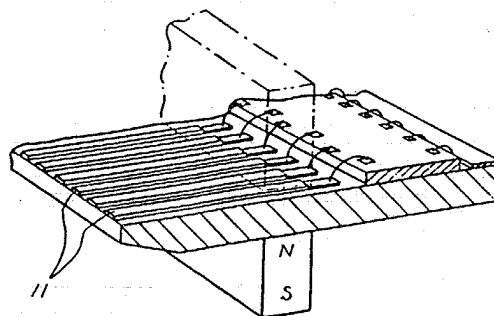
5 導電性磁性板

第 3 図

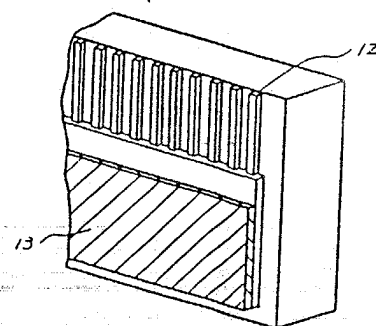


- 6 記録電極ヘッド
7 駆動IC
8 電極駆動部
9 ヒートシンク
10 コネクター

第 4 図



第 5 図



- 11 スタイラスアレーヘッド
12 導電性電極
13 磁性体シート